Abstract

In a device that receives and outputs multiplexed, packetized data streams, an output data stream mapper has an interface with an input packetized data stream, a packet processor configured to and route packets, a memory for long term retention of at least one stored format table, the stored format table having input program numbers and output program numbers, and the memory further being configured for short term retention of a current PAT. A mapping processor is configured to receive a current PAT from the input data stream, and to compare input program numbers in the current PAT to known program numbers in the stored format table. If the input program numbers in the current PAT are the same as the input program numbers in the stored format table, then another data stream is output having output program numbers from the stored format table. If the input program numbers in the current PAT are not the same as the input program numbers in the stored format table, then another data stream is output having reassigned output program numbers. The reassigned output program numbers may be from another stored format table in the memory, if the other stored format table has input program numbers that match the input program numbers in the current PAT. If not the reassigned output program numbers may be newly generated. The mapper may also reassign PMT PIDs and/or PIDs within the PMTs.